North Lily Heap Leach Facility Heap Leach Discharge Report First Quarter 2002

Permit No. UGW230001

North Lily Mining Ltd. Heap Leach Facility

Juab County, Utah

April 2002

Prepared for:

State of Utah
Division of Water Quality
Department of Environmental Quality
P.O. Box 144870
Salt Lake City, Utah 84114-4870
Attention: Ground Water Protection Section

Prepared by:

JBR Environmental Consultants, Inc. 8160 South Highland Drive, Suite A-4 Sandy, Utah 84093 (801) 943-4144

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DIVISION OF OIL, GAS AND MINING

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1.0 Introduction

On behalf of North Lily Mining Company (NLMC), JBR Environmental Consultants, Inc. (JBR) is reporting the 1st quarter results of the Heap Leach effluent monitoring performed at the North Lily Heap Leach property located 5 miles south of Eureka, Utah, on Highway 6 (Figure 1). The effluent monitoring was performed as part of the stipulations stated in the Final Ground Water Discharge Permit No. UGW230001. This report includes a discussion of the field and laboratory activities performed to date. The most recent laboratory results are included in Appendix A and the latest discharge data are included in Appendix B.

2.0 Methods

2.1 Weekly Site Survey

A JBR associate visits the North Lily site weekly to conduct a site specific survey of the property. The site survey consists of: monitoring the water flow (discharge) at the upper distribution box, visual observations of the discharge water, inspection of the property and the perimeter fence, observation of the soil conditions (any signs of erosion), and examination of the vegetation growth in the reclaimed areas.

Monitoring of the upper distribution box consists of removing three covers placed on top of the distribution box to enable a visual inspection of the leachate from the heap as it enters the distribution box. Once a visual observation has been made and noted, the discharge rate is measured using a one gallon container and a stop watch.

2.2 Quarterly Sampling Event

The sampling events are conducted on a quarterly schedule as shown in Table 2-1 and tested for the analytes listed in Table 2-2. The events consist of a site survey of the North Lily property and then the sampling of the discharge water at the upper distribution box. The three protective covers are removed to allow access to the inflowing discharge and an observation of the water is made and noted. Using a laboratory supplied 1-quart bottle, the discharge sample is collected and placed into the 1, 1 liter and 3, 0.5 liter laboratory supplied sample bottles. The sample bottles are then placed into a cooler containing ice, pending the delivery to Chemtech- Ford Analytical Laboratories for analysis. The leachate sample bottles are stored and transported using chain-of-custody procedures.

Table 2-1 Compliance Monitoring Reporting Schedule

President Control of the Control of	Report Dur Date
1 st (Jan., Feb., March)	April 15th
2 nd (April, May, June)	July 15th
3 rd (July, Aug., Sept.)	October 15th
4 th (Oct., Nov., Dec.)	January 15th

Table 2-2 Analytes

Parinders	(Memves)	Parinties	(Uey/os)
pН	6.5-8.5	Calcium (mg/l) (* or ****)	NS
Conductance (umhos/cm) (*)	NS	Chromium (mg/l) (****)	0.1
Alkalinity as Bicarbonate (mg/l)(*)	NS	Copper (mg/l) (****)	1.3
Total Hardness (mg/l) (*)	NS	Magnesium (mg/l) (* or ****)	NS
Chloride (mg/l) (*)	NS	Manganese (mg/l) (****)	NS
Cyanide, Amenable to Cl ₂ (mg/l) (**)	NS	Potassium (mg/l) (*)	NS
Cyanide, Total (mg/l) (**)	NS	Sodium (mg/l) (*)	NS
Cyanide, WAD (mg/l) (**)	0.2 (free)	Zinc (mg/l) (****)	5.0
Fluoride (*)	4.0	Arsenic (mg/l) (* or ****)	0.05
Nitrite, Nitrogen (mg/l) (***)	1.0	Cadmium (mg/l) (****)	0.005
Nitrate+Nitrite Total (mg/l) (***)	10.0	Mercury (mg/l) (****)	0.002
Sulfate (mg/l) (*)	NS	Lead (mg/l) (****)	0.015
Barium (mg/l) (* or ****)	2.0	Selenium (mg/l) (* or ****)	0.05
TDS (mg/l) (*)	NS	Silver (mg/l) (****)	0.1

Notes: (UGWQS) is Utah Ground Water Quality Standard, and NS indicates that there is not a Utah Ground Water Standard. *=1 L untreated,

^{**= 0.5} L treated w/ NaOH,

^{***=0.5} L treated w/ H2SO4 (nutrients),
****= 0.5 L treated w/ HNO3 (metals)

3.0 Results

3.1 Weekly Site Survey

The weekly site visits have shown a steady decrease in heap leach mound discharge since July of 2000. Recently the leachate discharge has fluctuated slightly, within permit limits, which can be attributed to various snow melt episodes. The discharge may be expected to increase and decrease through the winter/spring months as a result of precipitation and the subsequent percolation into the mound.

3.2 Quarterly Sampling Event

JBR visited the site on March 22, 2002 to sample the heap leach discharge effluent at the upper distribution box. The results of this sampling event along with the previous sampling results have been compiled and shown on Table 3-1. The laboratory reports and chain-of-custody documents for the 1st quarter sampling event can be found in Appendix A while the field notes can be found in Appendix C.

Table 3-1 Water Quality Summary

Dala	27.00	7249JF9JBF	angere.	Aleyet)	gangeni.	(100vc01	Mate 922	Pritain Chromat Wantan
								Meller Mellerier
Sampled Jyacayas		E)W(O)	a de la composición dela composición de la composición dela composición de la compos	JER	J\$35 ²	(JER)	Jan I	
Parania (ar								
На	9.1	8.7	8.1	8.2	7.8	7.6	7.5	6.5-8.5
Conductance (umhos/cm)	23,000	22,000	23,300	22,000	19,000	21,000	20,000	NS
TDS (mg/l)	19,510	18,358	20,000	NA	NA	NA	NA	NS
Alkalinity as Bicarbonate (mg/l)	364	248	388	280	360	350	320	NS
Total Hardness (mg/l)	1,409.8	1,296.4	NÁ	NA	NA	NA	NA	NS
Chloride (mg/l)	2,125	2,025	2,220	2,100	1,900	1,900	1,800	NS
Cyanide, Amenable to Cl ₂ (mg/l)	20.865	34.87	18.8	16	4.3	2.8	2.6	NS
Cyanide, Total (mg/l)	20.9	35	19.0	16	4.4	3.1	2.71	NS
Cyanide, WAD (mg/l)	NA	NA	14.40	12	0.52	0.42	0.53	0.2 (free)
Fluoride	NA	NA	6.7	5.6	3.2	3.2	3	4.0
Nitrite, Nitrogen mg/l)	NA	NA	51	57	81	130	130	1.0
Nitrate + Nitrite Total (mg/l)	124	2,110	145	160	280	310	500	10.0
Sulfate (mg/l)	11,000	4,560	10,200	11,000	7,800	8,000	7,600	NS
Barium (mg/l)	0.015	ND	0.010	0.045	0.015	0.012	0.012	2.0
Calcium (mg/l)	539	481	350	280	400	410	420	NS
Chromium (mg/l)	0.009	ND	ND	ND	ND	ND	ND	0.1
Copper (mg/l)	5.70	0.332	19	15	3.1	2.6	1.9	1.3
Magnesium (mg/l)	15.8	0.234	29	110	48	53	64	NS

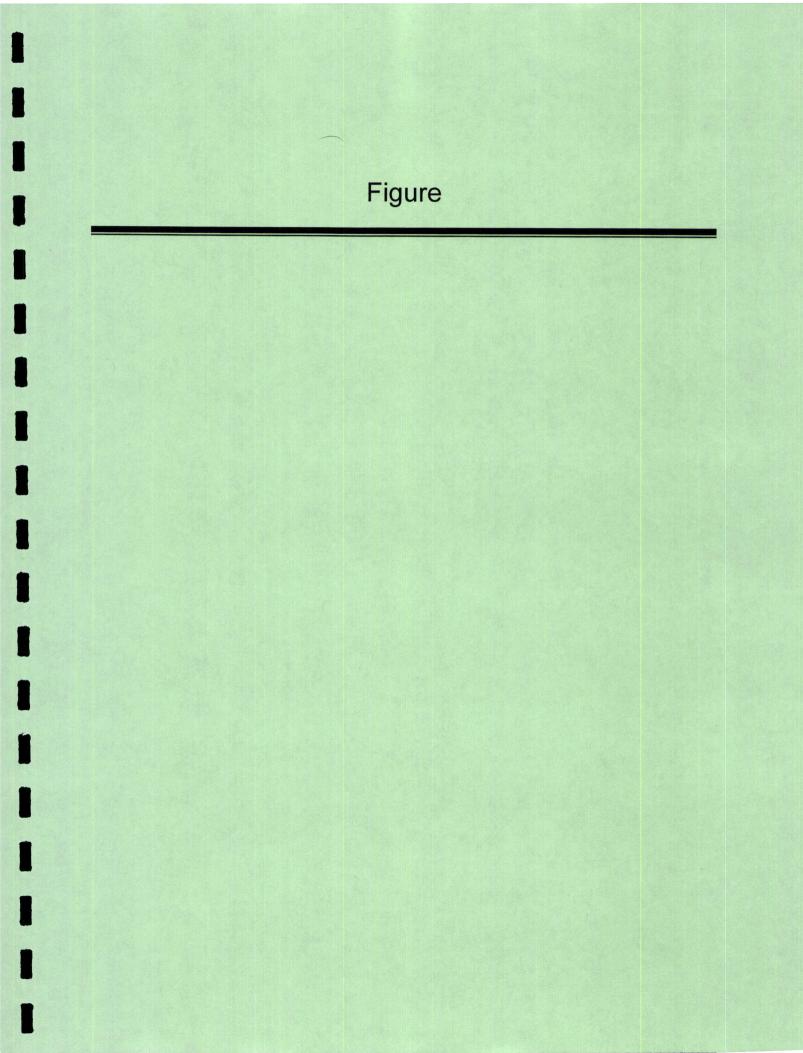
Table 3-1 (Cont.)

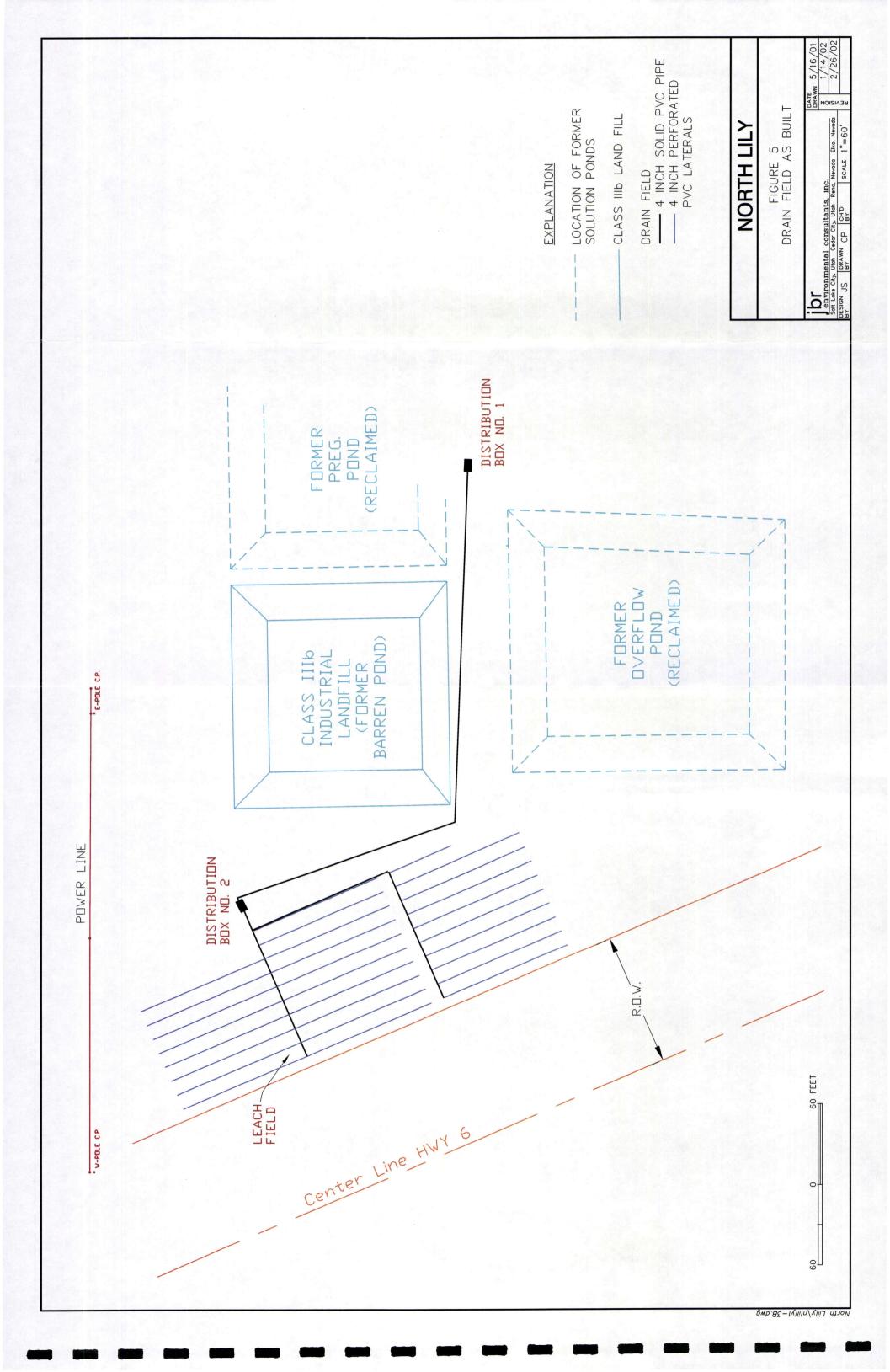
Date	(\$777.9)9) (\$2.77.9)8	(19) (8 <u>(8)</u>	Aug-00	May-014	Aug 0 [Nov-01	Mairie	Utah Ground Waler
Sampled by Sampled	20VVQ 2	EDWOL	SJBR	KBR.4	JUBRE	SABRE	JBR	Standard
color Raininger As a	246 57 653	5	a delta e			2,000		
Manganese (mg/l)	0.130	0.110	NA	NA	NA	NA	NA	NS
Potassium (mg/l)	297	293	310	260	240	220	190	NS
Sodium (mg/l)	5,570	5,500	5,600	5,100	5,100	4,900	4,500	NS
Zinc (mg/l)	91	ND	0.42	0.48	1.4	2.2	3.2	5.0
Arsenic (mg/l)	0.900	76	0.2464	0.17	0.14	0.17	0.17	0.05
Cadmium (mg/l)	ND	ND	0.0076	0.006	0.0097	0.021	0.026	0.005
Mercury (mg/l)	NA	0.089	ND	0.019	0.015	0.0060	0.0072	0.002
Lead (mg/l)	0.076	0.009	0.1581	0.2	0.085	0.18	0.28	0.015
Selenium (mg/l)	0.200	0.014	0.2707	0.15	0.12	0.20	0.17	0.05
Silver (mg/l)	0.370	0.029	0.3147	0.64	0.08	0.069	0.098	0.1

In most cases, the 1st quarter results show that the concentrations of the analytes remained similar to, or below, those reported in the previous samples.

4.0 Discussion and Conclusions

Sampling data shown in Table 3-1 indicate that the overall concentrations present in the heap leach draindown continue to diminish in response to natural processes. Occasional increases in contaminant concentrations may be expected over time in response to the heterogeneities in the heap leach mound discharge. It is expected that the natural processes as well as the reclamation work conducted at the site will contribute to the overall decrease in contaminant concentrations in the future.





Appendix A

Laboratory Results



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Date: 4/15/02

JBR Consultants attn. Bill Fuller 8160 South Highland Drive, Ste. A-4 Sandy, UT 84093

Project Group No. 53353

Date Sample(s) Submitted: 3/22/02

This is the final report for project 53353 and contains <u>3</u> pages of information in addition to attachments. Individual pages or sections of this report may not be separated when using the information for regulatory compliance.

The analyses presented on this report were performed in accordance with National Environmental Laboratory Accreditation Program (NELAP), Section 5.13.

Please feel free to contact us at (801) 262-7299 or (801) 262-7378 (fax) if you have questions or comments regarding this report.

Dave Gayer Laboratory Director dave@chemtechford.com

Linda Daniels Customer Representative

Approved By:

Dave Gayer, Laboratory Director



Lab No: 02-U002385 **Report Date:** 4/15/02

JBR Consultants attn. Bill Fuller 8160 South Highland Drive, Ste. A-4 Sandy, UT 84093

CERTIFICATE OF ANALYSIS

Sample Description: Sample Matrix:

NLILY DB 03/22/02 WASTE WATER

53353

Lab Group No: Date/Time Sampled: Date/Time Received: Sample Note(s):

3/22/02 , 12:45 3/22/02, 14:10

Sample not received on ice.

PARAMETER / UNITS	RESULT	MRL	DATE ANALYZED	METHOD	ANALYS
INORGANIC PARAMETERS					
Alkalinity, as Bicarbonate, mg/L	320	1	3/25/02 17:0	O SM 2320B	CSM
Alkalinity, as Carbonate, mg/L	< 1	1	3/25/02 17:00		CSM
Alkalinity, Total (CaCO3), mg/L	260	1	3/25/02 17:00		CSM
Chemical Oxygen Demand, mg/L	630	10	3/28/02 13:49		CSM
Chloride, mg/L	1,800	50	3/22/02 16:30		CSM
Conductance, Specific, umhos/cm	20,000	1	3/29/02	EPA 120.1	KJM
Cyanide, Amenable to Cl2, mg/L	2.6	0.016	4/ 5/02 17:00	ASTM D2036	TC
Cyanide, Total, mg/L	2.71	0.08	4/ 3/02 15:00	ASTM D2036	TC
Cyanide, WAD, mg/L	0.53	0.016	4/ 3/02 15:00	ASTM D2036	TC
Fluoride, mg/L	3	1	3/22/02 16:30	EPA 300.0	CSM
Nitrate, Nitrogen, mg/L	500	5	3/22/02 16:30	EPA 300.0	CSM
Nitrite, Nitrogen, mg/L	130	2	3/22/02 16:30	EPA 300.0	CSM
pH, units	7.5	0.1	3/25/02 16:00	EPA 150.1	KD
Sulfate, mg/L	7,600	50	3/22/02 16:30	EPA 300.0	CSM
Barium (T), as Ba, mg/L	0.012	0.005	4/10/02 9:47	EPA 200.7	MJB
Calcium (T), as Ca, mg/L	420	0.2	4/10/02 9:47	PPA 200.7	MJB
Chromium (T), as Cr, mg/L	< 0.005	0.005	4/10/02 9:47	EPA 200.7	MJB
Copper (T), as Cu, mg/L	1.9	0.01	4/10/02 9:47	EPA 200.7	MJB
Magnesium (T), as Mg, mg/L	64	0.2	4/10/02 9:47	EPA 200.7	MJB
Potassium (T), as K, mg/L	190	0.2	4/10/02 9:47	EPA 200.7	MJB
Sodium (T), as Na, mg/L	4,500	4	4/12/02 9:20	EPA 200.7	MJB
Zinc (T), as Zn, mg/L	3.2	0.01	4/10/02 9:47	EPA 200.7	MJB
Arsenic (T), as As, mg/L	0.17	0.0005	3/27/02 15:49	EPA 200.8	JJT
Cadmium (T), as Cd, mg/L	0.026	0.0005	3/27/02 15:49	EPA 200.8	JJT
Lead (T), as Pb, mg/L	0.28	0.001	3/27/02 15:49	EPA 200.8	JJT
Mercury (T), as Hg, mg/L	0.0072	0.0002	3/27/02 15:49	EPA 200.8	JJT
Selenium (T), as Se, mg/L	0.17	0.0005	3/27/02 15:49	EPA 200.8	JJT



Lab No: 02-U002385 **Report Date:** 4/15/02

JBR Consultants attn. Bill Fuller 8160 South Highland Drive, Ste. A-4 Sandy, UT 84093

CERTIFICATE OF ANALYSIS

Sample Description: Sample Matrix:

NLILY DB 03/22/02 WASTE WATER

Sample Matrix: Lab Group No:

53353

Date/Time Sampled: Date/Time Received:

3/22/02 , 12:45 3/22/02 , 14:10

Sample Note(s):

Sample not received on ice.

PARAMETER / UNITS	RESULT	MRL	DATE ANALYZED	METHOD	ANALYST
INORGANIC PARAMETERS					
Silver (T), as Ag, mg/L	0.098	0.0005	3/27/02 15:49	EPA 200.8	JJT
Temperature, Receiving, C	7.2		3/22/02 14:10		SPS

3

1410 J J C J Date/Time Sample Defivered by Courier: | Date/Time Sample Receiving Temperature; (C) Date/Time د 0 8.006 V ANALYTES REQUESTED 207 *expedited turnaround subject to additional charge Phone 801-262-7299 Fax 801-262-7378 TURNAROUND REQUIRED* BILLING ADDRESS: Received by (signature): Received by (signature): Received by (signature BILLING NAME: P.O. Other (specify) 1470 Sampled by: (signature) MATRIX Sludge: Solid, Liquid (circle) 03 22/02 Date/Time Murray, UT 84107 Date/Time Date/Time Water: Drink. (Waste Bround (circle) Number of Containers 12:45 8160 so Highland Dr. SAMPLE Mark 'X' for copy to DEQ Div of Drinking Water 6100 South Stratler (380 West) CHEMTECH - FORD, INC. 84043 801)94-4-4141 FAX# 1. NLILY - DB 03/22/02 03/22/02 SAMPLE O SAMDY **IDENTIFICATION/LOCATION** IN JACK Relinquished by; (signature SAMPLE Relinquished by: (signature) Relinquished by: (signature) CHEMTECH-FORD, INC. COMPANY CONTACT:_ Special Instructions: Sampled by: (print) CITY/STATE/ZIP: ADDRESS: PROJECT: PHONE #: **%**

ANALYSIS REQUEST FORM/CHAIN OF CUSTODY

YELLOW: CUSTOMER

WHITE: ORIGINAL

NET 30 DAYS: 1.5% PER MONTH INTEREST CHARGE (18% A.P.R.) CUSTOMER AGREES TO PAY COLLECTION COSTS AND ATTORNEY'S FEES.

PINK: FILE

Appendix B

Heap Leach Discharge

GLI IGI Heap Leach Pad Discharge ISI ----Series1 ς8 gg 6Þ 25.0 20.0 30.0 15.0 10.0 5.0 Rate (GPM)

					Amount	
	Daily				Pumped	
	Average		Return Rate	ReturnRate	From Preg	
Date	(GPM)	Application Site	(Feet)	(GPM)	Pond	
July 3, 2000	100	N/A	N/A			
July 4, 2000	100	N/A	N/A			
July 5, 2000	100	N/A	N/A		270	
July 6, 2000	100	N/A	N/A			
July 7, 2000	100	N/A	N/A			
July 10, 2000	95	N/A	N/A			
July 11, 2000	95	N/A	N/A			
July 12, 2000	90	N/A	N/A		260	
July 13, 2000	90	N/A	N/A			
July 14, 2000	95	N/A	N/A			
July 15, 2000	225	N/A	N/A			
July 17, 2000	N/A	Recycle into Preg	N/A			
July 18, 2000	220	N/A	N/A			
July 19, 2000	220	N/A	N/A		250	
July 20, 2000	220	N/A	N/A			
July 21, 2000	220	N/A	N/A			
July 24, 2000	N/A	Recycle into Preg	N/A			
July 25, 2000	N/A	Recycle into Preg	N/A		280	
July 26, 2000	300	Pad and Preg	N/A			
July 27, 2000	300	Pad and Preg	N/A			
July 28, 2000	300	Pad and Preg	N/A			
July 30, 2000	N/A	Recycle into Preg	0.24			
July 31, 2000	N/A	Overflow	0.24			
August 1, 2000	N/A	Overflow	0.24		270	
August 2, 2000	N/A	Overflow	0.22			
August 3, 2000	N/A	Overflow	0.22			
August 6, 2000	N/A	Rec	N/A			
August 7, 2000	N/A	Rec	N/A		300	
August 8, 2000	360	Pad and Preg	N/A			
August 9, 2000	360	Pad and Preg	N/A			
August 10, 2000	360	Pad and Preg	N/A		200	
August 11, 2000	360	Pad and Preg	N/A			
August 12, 2000	360	Pad and Preg	N/A			
August 13, 2000	360	Rec	0.19	23.1		
August 14, 2000	360	Rec	0.19	23.1		
August 15, 2000	360	Rec	0.19	23.1	400	
August 16, 2000	360	Rec	0.19	23.1	490	
August 17, 2000	360	Rec	0.2	25.0		
August 18, 2000	360	Rec	0.2	25.0		
August 19, 2000	360	Rec	0.21	27.0	_	
August 20, 2000	340	Rec	0.21	27.0		
August 21, 2000	340	Rec	0.21	27.0		
August 22, 2000	340	Rec	0.21	27.0		
August 23, 2000	340	Rec	0.21	27.0		

August 24, 2000	340	Rec	0.21	27.0	500
August 27, 2000	350	Preg and Overflow	0.19	23.1	
August 28, 2000	220	Preg and Overflow	0.18	21.3	
August 29, 2000	220	Preg and Overflow	0.18	21.3	
August 30, 2000	340	Preg and Overflow	0.17	19.5	
August 31, 2000	200	Preg and Overflow	0.17	19.5	475
September 1, 2000	210	Preg and Overflow	0.16	17.7	······································
September 5, 2000	N/A	Recycle to preg pond	0.14	14.4	
September 6, 2000	N/A	Recycle to preg pond	0.14	14.4	
September 7, 2000	N/A	Recycle to preg pond	0.14	14.4	500
September 8, 2000	N/A	Recycle to preg pond	0.14	14.4	
September 9, 2000	N/A	Recycle to preg pond	0.13	12.8	
September 10, 2000	N/A	Recycle to preg pond	0.13	12.8	
September 11, 2000	N/A	Overflow Ponds	0.13	12.8	
September 12, 2000	N/A	Overflow Ponds	0.12	11.3	
September 13, 2000	N/A	Overflow Ponds	0.12	11.3	480
September 14, 2000	N/A	Overflow Ponds	0.12	11.3	
September 15, 2000	N/A	Overflow Ponds	0.12	11.3	
September 16, 2000	N/A	Overflow Ponds	0.12	11.3	
September 18, 2000	N/A	Recycle to preg pond	0.12	11.3	
September 19, 2000	N/A	Recycle to preg pond	0.12	11.3	
September 20, 2000	N/A	Recycle to preg pond	0.11	9.1	490
September 21, 2000	N/A	Recycle to preg pond	0.11	9.1	
September 22, 2000	N/A	Recycle to preg pond	0.11	9.1	
September 23, 2000	N/A	Recycle to preg pond	0.11	9.1	
September 25, 2000	N/A	Recycle to preg pond	0.11	9.1	
September 26, 2000	N/A	Recycle to preg pond	0.11	9.1	
September 27, 2000	N/A	Recycle to preg pond	0.11	9.1	475
September 28, 2000	N/A	Recycle to preg pond	0.10	8.6	
September 29, 2000	N/A	Recycle to preg pond	0.10	8.6	
October 2, 2000	N/A	Recycle to preg pond	0.10	8.6	
October 3, 2000	N/A	Recycle to preg pond	0.10	8.6	
October 4, 2000	N/A	Recycle to preg pond	0.10	8.6	469
October 5, 2000	N/A	Recycle to preg pond	0.10	8.6	
October 6, 2000	N/A	Recycle to preg pond	0.10	8.6	
October 9, 2000	N/A	Recycle to preg pond	0.10	8.6	
October 10, 2000	N/A	Recycle to preg pond	0.10	8.6	
October 11, 2000	N/A	Recycle to preg pond	0.10	8.6	
October 12, 2000	N/A	Recycle to preg pond	0.10	8.6	490
October 13, 2000	N/A	Recycle to preg pond	0.10	8.6	
October 16, 2000	N/A	Recycle to preg pond	0.10	8.6	
October 17, 2000	N/A	Recycle to preg pond	0.10	8.6	
October 18, 2000	N/A	Recycle to preg pond	0.10	8.6	480
October 19, 2000	N/A	Recycle to preg pond	0.10	8.6	
October 20, 2000	N/A	Recycle to preg pond	0.10	8.6	
October 23, 2000	N/A	Recycle to preg pond	0.10	8.6	
October 24, 2000	N/A	Recycle to preg pond	0.10	8.6	
October 25, 2000	N/A	Recycle to preg pond	0.09	7.3	440

October 26, 2000	N/A	Recycle to preg pond	0.09	7.3	
October 27, 2000	N/A	Recycle to preg pond	0.09	7.3	·
November 6, 2000	N/A	Recycle to preg pond	0.09	8.6	
November 7, 2000	N/A	Recycle to preg pond	0.10	7.3	
November 8, 2000	N/A	Recycle to preg pond	0.09	7.3	390
November 9, 2000	N/A		0.09	8.6	390
November 10, 2000	N/A	Recycle to preg pond			
November 13, 2000		Recycle to preg pond	0.10	8.6	
	N/A	Recycle to preg pond	0.10	8.6	<u> </u>
November 14, 2000	N/A	Recycle to preg pond	0.10	8.6	000
November 15, 2000	N/A	Recycle to preg pond	0.10	8.6	390
November 16, 2000	N/A	Recycle to preg pond	0.10	8.6	ļ
November 17, 2000	N/A	Recycle to preg pond	0.10	8.6	
November 20, 2000	N/A	Recycle to preg pond	0.10	8.6	
November 21, 2000	N/A	Recycle to preg pond	0.10	8.6	
November 22, 2000	N/A	Recycle to preg pond	0.10	8.6	350
November 23, 2000	N/A	Recycle to preg pond	0.09	7.3	
November 24, 2000	N/A	Recycle to preg pond	0.09	7.3	
November 27, 2000	N/A	Recycle to preg pond	0.09	7.3	
November 28, 2000	N/A	Recycle to preg pond	0.09	7.3	
November 29, 2000	N/A	Recycle to preg pond	0.09	7.3	
November 30, 2000	N/A	Recycle to preg pond	0.09	7.3	300
December 1, 2000	N/A	Recycle to preg pond	0.09	7.3	
December 4, 2000	N/A	Recycle to preg pond	0.09	7.3	
December 5, 2000	N/A	Recycle to preg pond	0.09	7.3	
December 6, 2000	N/A	Recycle to preg pond	0.09	7.3	300
December 7, 2000	N/A	Recycle to preg pond	0.09	7.3	
December 8, 2000	N/A	Recycle to preg pond	0.09	7.3	
December 11, 2000	N/A	Recycle to preg pond	0.09	7.3	
December 12, 2000	N/A	Recycle to preg pond	0.09	7.3	300
December 13, 2000	N/A	Recycle to preg pond	0.09	7.3	
December 14, 2000	N/A	Recycle to preg pond	0.09	7.3	
December 15, 2000	N/A	Recycle to preg pond	0.09	7.3	
December 18, 2000	N/A	Recycle to preg pond	0.08	6.1	
December 19, 2000	N/A	Recycle to preg pond	0.08	6.1	
December 20, 2000	N/A	Recycle to preg pond	0.08	6.1	290
December 21, 2000	N/A	Recycle to preg pond	80.0	6.1	-
December 22, 2000	N/A	Recycle to preg pond	0.08	6.1	
December 26, 2000	N/A	Recycle to preg pond	0.07	4.9	
December 27, 2000	N/A	Recycle to preg pond	0.07	4.9	
December 28, 2000	N/A	Recycle to preg pond	0.07	4.9	290
December 29, 2000	N/A	Recycle to preg pond	0.07	4.9	
January 2, 2001	N/A	Recycle to preg pond	0.07	4.9	
January 3, 2001	N/A	Recycle to preg pond	0.07	4.9	
January 4, 2001	N/A	Recycle to preg pond	0.07	4.9	280
January 5, 2001	N/A	Recycle to preg pond	0.06	3.6	
January 8, 2001	N/A	Pump was off	0.06	3.6	
January 9, 2001	N/A	Recycle to preg pond	0.06	3.6	
January 10, 2001	N/A	Recycle to preg pond	0.06	3.6	285
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January 11, 2001	N/A	Recycle to preg pond	0.06	3.6	1
January 12, 2001	N/A	Recycle to preg pond	0.06	3.6	
January 15, 2001	N/A	Pump was off	0.06	3.6	
January 16, 2001	N/A		0.06	3.6	
January 17, 2001	N/A	Recycle to preg pond			270
		Recycle to preg pond	0.06	3.6	270
January 18, 2001	N/A	Recycle to preg pond	0.06	3.6	
January 19, 2001	N/A	Recycle to preg pond	0.06	3.6	
January 22, 2001	N/A	Recycle to preg pond	0.06	3.6	<u> </u>
January 23, 2001	N/A	Recycle to preg pond	0.06	3.6	
January 24, 2001	N/A	Recycle to preg pond	0.06	3.6	290
January 25, 2001	N/A	Recycle to preg pond	0.06	3.6	
January 26, 2001	N/A	Recycle to preg pond	0.06	3.6	
January 29, 2001	N/A	Recycle to preg pond	0.06	3.6	
January 30, 2001	N/A	Recycle to preg pond	0.06	3.6	
January 31, 2001	N/A	Recycle to preg pond	0.06	3.6	285
February 1, 2001	N/A	Recycle to preg pond	0.06	3.6	
February 2, 2001	N/A	Recycle to preg pond	0.06	3.6	
February 5, 2001	N/A	Recycle to preg pond	0.06	3.6	
February 6, 2001	N/A	Recycle to preg pond	0.06	3.6	
February 7, 2001	N/A	Recycle to preg pond	0.06	3.6	285
February 8, 2001	N/A	Recycle to preg pond	0.06	3.6	
February 9, 2001	N/A	Recycle to preg pond	0.06	3.6	
February 12, 2001	N/A	Recycle to preg pond	0.06	3.6	
February 13, 2001	N/A	Recycle to preg pond	0.06	3.6	
February 14, 2001	N/A	Recycle to preg pond	0.06	3.6	320
February 15, 2001	N/A	Recycle to preg pond	0.06	3.6	
February 16, 2001	N/A	Recycle to preg pond	0.06	3.6	
February 17, 2001	N/A	Recycle to preg pond	0.06	3.6	
February 19, 2001	N/A	Recycle to preg pond	0.06	3.6	
February 20, 2001	N/A	Recycle to preg pond	0.06	3.6	
February 21, 2001	N/A	Recycle to preg pond	0.06	3.6	
February 22, 2001	N/A	Recycle to preg pond	0.06	3.6	310
February 23, 2001	N/A	Recycle to preg pond	0.06	3.6	
February 26, 2001	N/A	Recycle to preg pond	0.06	3.6	
February 27, 2001	N/A	Recycle to preg pond	0.06	3.6	
February 28, 2001	N/A	Recycle to preg pond	0.06	3.6	290
March 1, 2001	N/A	Recycle to preg pond	0.06	3.6	
March 2, 2001	N/A	Recycle to preg pond	0.06	3.6	
March 5, 2001	N/A	Recycle to preg pond	0.06	3.6	
March 6, 2001	N/A	Recycle to preg pond	0.06	3.6	
March 7, 2001	N/A	Recycle to preg pond	0.06	3.6	
March 8, 2001	N/A	Recycle to preg pond	0.06	3.6	280
March 9, 2001	N/A	Recycle to preg pond	0.06	3.6	
March 12, 2001	N/A	Recycle to preg pond	0.06	3.6	
March 13, 2001	N/A	Recycle to preg pond	0.06	3.6	
March 14, 2001	N/A	Recycle to preg pond	0.06	3.6	_
March 15, 2001	N/A	Recycle to preg pond	0.06	3.6	
March 16, 2001	N/A	Recycle to preg pond	0.06	3.6	280
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March 19, 2001	N/A	Recycle to preg pond	0.06	3.6	
March 20, 2001	N/A	Recycle to preg pond	0.06	3.6	
March 21, 2001	N/A	Recycle to preg pond	0.06	3.6	-
March 22, 2001	N/A	Recycle to preg pond	0.06	3.6	280
March 23, 2001	N/A	Recycle to preg pond	0.06	3.6	
March 26, 2001	N/A	Recycle to preg pond	0.06	3.6	
March 27, 2001	N/A	Recycle to preg pond	0.06	3.6	
March 28, 2001	N/A	Recycle to preg pond	0.06	3.6	
March 29, 2001	N/A	Recycle to preg pond	0.06	3.6	290
March 30, 2001	N/A	Recycle to preg pond	0.06	3.6	1
April 2, 2001	N/A	Recycle to preg pond	0.06	3.6	
April 3, 2001	N/A	Recycle to preg pond	0.06	3.6	·
April 4, 2001	N/A	Recycle to preg pond	0.06	3.6	
April 5, 2001	N/A	Recycle to preg pond	0.06	3.6	270
April 6, 2001	N/A	Recycle to preg pond	0.06	3.6	
May, 2001 Week 1	N/A	Drain Field	N/A	3.6	N/A
May, 2001 Week 2	N/A	Drain Field	N/A	3.6	N/A
May, 2001 Week 3	N/A	Drain Field	N/A	3.6	N/A
May, 2001 Week 4	N/A	Drain Field	N/A	3.6	N/A
June 6, 2001	N/A	Drain Field	N/A	3.6	N/A
June 13, 2001	N/A	Drain Field	N/A	3.6	N/A
June 20, 2001	N/A	Drain Field	N/A	3.6	N/A
June 27, 2001	N/A	Drain Field	N/A	3.6	N/A
July 3, 2001	N/A	Drain Field	N/A	3.6	N/A
July 11, 2001	N/A	Drain Field	N/A	3.6	N/A
July 18, 2001	N/A	Drain Field	N/A	3.6	N/A
July 23, 2001	N/A	Drain Field	N/A	3.6	N/A
August 1, 2001	N/A	Drain Field	N/A	3.0	N/A
August 8, 2001	N/A	Drain Field	N/A	3.0	N/A
August 15, 2001	N/A	Drain Field	N/A	3.0	N/A
August 21, 2001	N/A	Drain Field	N/A	3.0	N/A
August 29, 2001	N/A	Drain Field	N/A	3.0	N/A
October 17, 2001	N/A	Drain Field	N/A	3.0	N/A
October 24, 2001	N/A	Drain Field	N/A	2.8	N/A
November 1, 2001	N/A	Drain Field	N/A	2.8	N/A
November 7, 2001	N/A	Drain Field	N/A	2.8	N/A
November 12, 2001	N/A	Drain Field	N/A	2.5	N/A
November 20, 2001	N/A	Drain Field	N/A	2.5	N/A
December 1, 2001	N/A	Drain Field	N/A	2.2	N/A
December 6, 2001	N/A	Drain Field	N/A	2.2	N/A
December 15, 2001	N/A	Drain Field	N/A	2.2	N/A
December 22, 2001	N/A	Drain Field	N/A	2.4	N/A
December 29, 2001	N/A	Drain Field	N/A	2.6	N/A
January 2, 2002	N/A	Drain Field	N/A	2.8	N/A
January 9, 2002	N/A	Drain Field	N/A	2.8	N/A
January 17, 2002	N/A	Drain Field	N/A	2.7	N/A
January 23, 2002	N/A	Drain Field	N/A	2.7	N/A
January 31, 2002	N/A	Drain Field	N/A	2.5	N/A

February 5, 2002	N/A	Drain Field	N/A	2.5	N/A
February 13, 2002	N/A	Drain Field	N/A	2.6	N/A
February 20, 2002	N/A	Drain Field	N/A	2.4	N/A
March 1, 2002	N/A	Drain Field	N/A	2.4	N/A
March 6, 2002	N/A	Drain Field	N/A	2.5	N/A
March 12, 2002	N/A	Drain Field	N/A	2.5	N/A
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Appendix C

Field Notes

HELL LOOKED FOR ANY VANDALISM, LOOKED OF SOR ANY VANDALISM, LOOKED FOR ANY VANDALISM, LOOKED OF SEED SPOUTH. I THEN WENT TO THE UPPER DISTRIBUTION BOX, REMOVED THE COURTS AND WENTER WITH FLOW WAS CLETT WINTER WITHER SAMPLE THE DISCHARGE WATER WITH THE SAMPLE BOTTLES SUPPLIED BY CHEMTELL-FORD.

[THEN TRANSPORTED THE BOTTLES TO CHEMPER FORD.

STAPLE TIME @ 1245

DROPOFF @

1415

ine Permit Number <u>M023</u> perator <u>North Lily M</u>	Mine Na Ining Co FROM_	ame North Date April	Lily-Tintic 124, 7002
CONFIDENTIALBON MULTIPUL DOCUMEN AMENDMENT _OTHE	ID CLOSURE IT TRACKING SH	LARGE MAPS	X EXPANDABLE
Description		YEA	R-Record Number
_NOI \(\sum_Incoming \)	_Outgoing	Internal	Superceded
Heap Lead	h Faeil	ty	
NOIIncoming	Outgoing	Internal	Superceded
NOIIncoming	Outgoing	Internal	Superceded
NOIIncoming	_Outgoing	Internal	Superceded
TEXT/ 81/2 X 11 MAP	PAGES11	X 17 MAPS	_LARGE MAP
OMMENTS:			